

2328h

S/075/61/016/005/005/010

B101/B110

Quantitative determination of some

1222 cm^{-1}) and POCl_3 (bands at 1226 and 1264 cm^{-1}). The sensitivity is $1 \cdot 10^{-4}\%$. CS_2 was determined from the intense 1520 cm^{-1} band; $K = 780 \text{ cm}^{-1}$; sensitivity is $7 \cdot 10^{-6}\%$. POCl_3 was determined from the 1226 cm^{-1} band ($K = 80 \text{ cm}^{-1}$; sensitivity $1.6 \cdot 10^{-4}\%$) and the 1264 cm^{-1} band ($K = 133 \text{ cm}^{-1}$; sensitivity $1 \cdot 10^{-4}\%$). SOCl_2 and SiCl_4 may be present in small amounts only. SiCl_4 was determined from the weak 1222 cm^{-1} band ($K = 0.607 \text{ cm}^{-1}$) to avoid the use of the KBr prism required for the 607 cm^{-1} band. Sensitivity was $2 \cdot 10^{-2}\%$. As the content of TiOCl_2 , SOCl_2 , and POCl_3 in commercial TiCl_4 does not exceed 0.2, 0.01, and 0.005%, respectively, these compounds do not interfere with the determination of SiCl_4 . Linear calibration curves were plotted for all four compounds by means of standard solutions. The measurements were made with an MKC-12 (IKS-12) spectrometer with NaCl prism. The relative errors were 3 - 7%. There are 5 figures, 1 table, and 8 references: 6 Soviet and 2 non-Soviet. The

Card 2/3

quantitative determination of some ...

2525h
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B101/B110

reference to the English-language publication reads as follows: J. C., Tyree, S. Y., JACS 81, 2290 (1959).

ASSOCIATION: Vsesoyuznyy alyuminiyevo-magniyevyy institut, Leningrad
(All-Union Institute of Aluminum and Magnesium, Leningrad)

SUBMITTED: April 18, 1960

X

Card 3/3

TSEKHONOV, D.I.

Intermolecular reaction between COCl_2 and TiCl_4 . Zhur. neorg.
khim. 9 no.6:1387-1392 Je '63 (MIRA 17:8)

1. Vsesoyuznyy alyuminiyevo-magniyevyy institut.

TSEKHOVOL'SKAYA, D.I.; ZAVARITSKAYA, T.A.; Prinimale uchastiye: VOL'FRAM, I.,
diplomantka

Determination of some impurities in silicon tetrachloride by the method
of infrared spectroscopy. Trudy Kom.anal.khim. 13:399-404 '63.
(MIR 16:5)

1. Leningradskiy gosudarstvennyy universitet (for Vol'fram).
(Silicon chlorides--Absorption spectra)

TSEKHOVOL'SKAYA, D.I.; MERENKOVA, B.M.

Spectrophotometric determination of vanadium in titanium tetra-
chloride. Zav. lab. 31 no.8:946 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy alyuminiyevo-
magniyevyy institut.

18.3100

82616

S/180/60/000/004/006/027

E111/E452

AUTHORS: Delarova, N.I., Zavaritskaya, T.A., Zevakin, I.A. and
~~Tsekhovetskaya, Z.I.~~ (Leningrad)

TITLE: Impurities in Technical Titanium Tetrachloride and
Their Removal

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1960, No.4, pp.33-38

TEXT: The authors point out the influence of titanium-tetrachloride purity on that of titanium obtained from it. For investigating the nature of impurities in titanium tetrachloride the authors used infrared absorption spectra. The impurities in tetra-chloride obtained by chlorination of slags in stack electric furnaces, in melts and in a fluidized bed are shown in Table 1. The solubilities of the main impurities in titanium tetrachloride were determined, values in weight percent at 0 to 136°C being shown in Table 2 for HCl, CO₂, Cl₂ and COCl₂; solubilities of TiOCl₂ and C₆Cl₆ are shown as functions of temperature (-20 to +136°C) in Fig.1a and 1b respectively. The authors also checked the vapour-liquid equilibrium compositions for the system TiCl₄ - SiCl₄ (Fig.2a) and investigated equilibria in TiCl₄ - VOCl₃ 44
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82616
S/180/60/000/004/006/027
E111/E452

Impurities in Technical Titanium Tetrachloride and Their Removal

mixtures (Fig.2b) and TiCl_4 - CCl_3COCl mixtures (Fig.4). These results are shown in the form of composition of vapour phase as functions of that of the liquid phase, the relative volatility as a function of the concentration of volatile component in the liquid is shown in Fig.3a for TiCl_4 - SiCl_4 , Fig.3b for TiCl_4 - VOCl_3 and Fig.5 for TiCl_4 - CCl_3COCl . The relative volatilities in TiCl_4 - VOCl_3 and TiCl_4 - CCl_3COCl are small and rectification columns with many plates would be required for their separation. Determinations were made of the partial vapour pressures of TiOCl_2 and C_6Cl_6 over their mixtures with TiCl_4 at 136 to 137°C by analyzing the condensed vapour phase in equilibrium with solution boiling at atmospheric pressure; the low values obtained (Tables 3 and 4 respectively) suggest that contamination by these substances is due largely to carry-over of droplets. There are 5 figures 4 tables and 7 references; 5 Soviet, 1 English and 1 Japanese.

SUBMITTED: April 30, 1960

Card 2/2

S/080/60/033/009/016/021
A003/A001

AUTHORS: Zavaritskaya, T.A., Tsekhover'skaya, D.I.

TITLE: On the Determination of Titanium Oxychloride in Titanium Tetra-
chloride ✓

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 9, pp. 2139-2140

TEXT: For using titanium tetrachloride for metallurgical purposes its degree of pollution by oxychloride, $TiOCl_2$, must be known. The method of infrared absorption spectra shows the best results. G.S. Denisov found three absorption bands for solutions of titanium oxychloride in tetrachloride: 821, 1,184 and 1,356 cm^{-1} . The first band is very suitable for determining small quantities of oxychloride, because it is 100 times more intensive than the others. The work was carried out on a WKC-12 (IKS-12) device with a NaCl prism. Results of investigations in the 1,356 cm^{-1} band are cited. The method mentioned is at present the only way of determining pollutions by oxychloride quickly. There is 1 figure, 1 table and 3 references: 2 Soviet, 1 American. ✓

ASSOCIATION: Vsesoyuznyy alyuminiyevo-magniyevyy institut (All-Union Aluminum-Magnesium Institute)

SUBMITTED: February 18, 1960

Card 1/1

TSEKHOVOL'SKIY, V.

One per cent saving equals 2,600.000.000 kilowatt-hours. Znan.
sila 35 no.5:40-41 My '60. (MIRA 13:7)
(Electric power)

TSEKHovol'skiy, F

S/004/60/000/01/03/004

AUTHOR: Tsekhovol'skiy, F.

TITLE: "Paper" Fuel Tanks

PERIODICAL: Znaniye-Sila, 1960, No 1, p 34

TEXT: The author describes the composition, merits and manifold applicability of a new paper product called laminated plastics. The production process is as follows: long strips of thin impregnated paper are pulled through a solution containing phenol-formaldehyde resins. The strips are then cut into sheets and piled on each other. Several layers of the impregnated paper are covered with a patterned or plain colored paper and the whole finished with a thin, transparent bakelite coating. The hot parcel is pressed in a steel press at 40°C and a pressure of 50-60 atm. These laminated plastics are waterproof acid-resistant and stable to light. It is a perfect cover for ships, furniture, walls and even roofs. It can also be used for radio and television boxes, pianos and lately also for fuel tanks, particularly on aircraft. Recent tests on a jet aircraft showed clearly the numerous advantages of these new "paper" fuel tanks.

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PHASE I BOOK EXPLOITATION

SOV/3914

SOV/53-M-24

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Prikladnaya geofizika; sbornik statey, vyp. 24 (Applied Geophysics; Collection of Articles, No. 24) Leningrad, Gostoptekhizdat, 1960. 260 p. 3,500 copies printed.

Sponsoring Agency: USSR. Ministerstvo geologii i okhrany neдр.

Scientific Ed.: M.K. Polshkov; Executive Ed.: A.A. Chizhov; Tech. Ed.: I.M. Gennad'yeva

PURPOSE: This book is intended for members of scientific research organizations, engineers and technical personnel engaged in geophysical surveying and research in industrial organizations.

COVERAGE: This is a collection of 11 articles by different authors on new methods of interpreting data and evaluating techniques in seismic, electrical, and gravimagnetic methods of surveying wells. The theory of seismic instrumentation and methods of outlining flat platform structures through seismic surveys are discussed,

Card 1/4

Applied Geophysics (Cont.)

SC7/3914

and theoretical problems of a new electrical survey method developed by the VNIIGeofizika (All-Union Scientific Research Institute of Geophysical Methods of Surveying) are analyzed. Recent developments in the interpretation of gravimetric and gravimagnetic methods and a new method for separating coal beds by gamma logging are also described. No personalities are mentioned. Most of the articles are accompanied by references, a majority of which are Soviet.

TABLE OF CONTENTS:

Slutskovskiy, A.I. Some Problems of the Efficiency of the Frequency Selection and Resolving Power of Seismic Amplifiers	3
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Krolenko, N.G., and G.D. Tsekov. Theoretical Curves in Electrical Sounding Over an Inclined Contact of Two Media (Inclined Contact Template)	54
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Card 2/4

Applied Geophysics (Cont.)

80V/3914

Filippov, Ye.M. Study of the Distribution of Gamma Radiation in Rocks	100
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Sokhranov, N.N. Study of the Transition Zone in Productive Beds Using Electrical Logging	159
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Lozinskaya, A.M., and L.Ye. Mindlin. Experiment in Radiogeodetic Tie-ins of a Detailed Aeromagnetic Survey	213
Polshkov, M.K. On the Theory and Methods of Making Computations for a Rheostat Amplifier With a Band Filter	222
Bibliographic List of Monographs and Articles Published by the All-Union Scientific Research Institute on Geophysical Methods of	

Card 3/4

ZAVARITSKAYA, T. A.; TSEKHOVOL'SKAYA, D. I.

Determination of titanium oxychloride in titanium tetrachloride.
Zhur. prikl. khim. 33 no.9:2139-2140 S '60. (MIRA 13:10)

1. Vsesoyuznyy alyuminiyevy-magniyevyy institut.
(Titanium chloride)

TSEKHOVOL'SKAYA, D.I.; ZAVARITSKAYA, T.A.

Quantitative determination of some impurities in titanium tetrachloride
by infrared spectroscopy. Zhur.anal.khim, 16 no.5:623-626
S-0 '61. (MIRA 14:9)

1. All-Union Aluminium-Magnesium Institute, Leningrad.
(Titanium chloride) (Spectrum, Infrared)

AUTHORS:

Tsekhovol'skaya, D. I., Zavaritskaya, T. A., Denisov, G. S.,
Chulanovskiy, V. M. SOV/32-25-3-16/62

TITLE:

The Use of Infra-red Spectroscopy for Analysis, Titanium Tetra-
chloride (Primeneniye infrakrasnoy spektroskopii k analizu
chetyrekhkhloristogo titana)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 300-302 (USSR)

ABSTRACT:

A lecture on this investigation was given at the XII Vsesoyuznoye
soveshchaniye po spektroskopii (Twelfth All Union Conference of
Spectroscopy) in Moscow in November 1958. The properties of
titanium depend considerably on the minimum amount of impurities.
It is not possible to determine all admixtures of $TiCl_4$ by the
chemical and physico-chemical analyses being used at present. In
the present investigation the composition of various admixtures
of $TiCl_4$ was investigated and methods of their quantitative de-
termination by means of infra-red absorption spectra have been
worked out. The spectrometers IKS-6, IKS-12, and Perkin Elmer
12-V were used in the investigations. Various technical samples
of $TiCl_4$ showed a considerable amount of spectral bands which

Card 1/2

The Use of Infra-red Spectroscopy for Analysing Titanium Tetrachloride

SOV/32-25-3-16/62

came from various admixtures, as e.g., VOCl_3 , SiCl_4 , TiOCl_2 , C_6Cl_6 , CH_2ClCOCl , CHCl_2 , COCl , CCl_3COCl , HCl , CCl_2 , CO_2 . It was found that the hydrolysis of TiCl_4 proceeds with formation of oxychlorides of the type Ti-O-Ti and Ti=O and not of hydroxychlorides. The determinations of VOCl_3 and CCl_2 are given. CO_2 was determined from the maximum at $\nu = 2338\text{cm}^{-1}$, whereas chlorine-substituted acetylchlorides were determined from the oscillations of the C=O group. The solubility of CO_2 , HCl , COCl_2 , and C_6Cl_6 in TiCl_4 could be determined by means of the investigation results which also showed that, with a TiCl_4 excess, the hydrolysis proceeds according to the scheme $\text{TiCl}_4 + \text{H}_2\text{O} \longrightarrow \text{TiOCl}_2 + 2 \text{HCl}$. There are 1 table and 5 references, 1 of which is Soviet.

ASSOCIATION:

Card 2/2

Vsesoyuznyy alyuminiyevo-magniyevyy institut (All-Union Aluminum-Magnesium Institute)

TSEKHOVOL'SKIY, F.

"The V-9 ekvodin." IUn.tekh. 3 no.3:47-48 Mr '59.
(Musical instruments, Electronic) (MIRA 12:4)

ZAVARITSKAYA, T.A.; Prilozheniya: DESAROVA, N.; TSEKHOVSKAYA, D.;
ZEVAKIN, I.; MISHENEVA, Ye.; ROGATKIN, A.

Investigations in the field of titanium tetrachloride purification.
Titan i ego oplavy no. 5:195-200 '61. (MIRA 15:2)

(Titanium chloride)

(Distillation)

(Vapor-liquid equilibrium)

TSEKIN, M.A., kand. tekhn. nauk, dotsent

Some studies of a shock excited transistor oscillator. Sbor.
trud. LIIZHT no.179:188-196 '61. (MIRA 16:11)

TSEKIN, M.A., kand.tekhn.nauk

Investigation of a shock-excited oscillator with autotransformer
feedback. Sbor. LIIZHT no.169:104-122 '60. (MIRA 13:11)
(Oscillators, Electric)

PLATE I BOOK EXPLOITATION 39V/820

Leningrad. Institut Inzhenerov zheleznodorojnogo transporta i telemechaniki, 1960. (Automation, Telemechanics, and Communications). Moscow, Mashinostroitel, 1960. 230 p. (Series: Istechnika, Vp. 169) 1,000 copies printed.

General Ed.: V. N. Istov. Professor. Ed.: O. I. Kamenov. Engineer. Tech. Ed.: Ye. N. Dobrov.

PREFACE: This book is intended for technical personnel and scientists engaged in the fields of automation, telemechanics, and communications.

CONTENTS: This collection of articles presents various methods of analysis and synthesis of electric circuits. New designs are described and ways of improving technical and economic indices of communication instruments are indicated. The articles contain computations for individual types of communication systems and methods of their synthesis. Some of the articles are accompanied by references.

Palatov, V. A. Engineer. Computation of selective amplifiers using the method of defining the fractional frequency change of the difference between function value and given value is minimum. There are 1 reference, all Soviet.

76

76

76

93

93

104

104

Card 5/11

GORBENKO, F.P.; SHEVCHUK, I.A.; TSELINSKIY, Yu.K.; SACHKO, V.V.

Extraction of microquantities of calcium in the presence of
alkyl amines. Zhur. anal. khim. 18 no.11:1397-1398 N '63.

(MIRA 17:1)

1. Donetskii filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta khimicheskikh reaktivov i osobo chistyykh veshchestv.

TSEKOV, A.

AGRICULTURE

Periodical Kooperativno Zemezelie. No. 10, Oct. 1958

TSEKOV, A.: LIDZHI, M.: The place of stockbreeding in a fuller and proportional use of the workers and the increase of the income of the cooperators. p. 7.

Monthly List of East European Accessions (EEAI) LC / Vol. 8, No. 3, March 1959. Uncl.

MILINOV, P.; TSEKOV, B.

Diencephalitis syndrome in an influenza epidemic in March 1959.
Suvrem med., Sofia no.2:37-42 '61.

1. Okružna bolnitsa, Varna. (Gl. lekar Chakalov.)

(INFLUENZA compl)
(DIENCEPHALON dis)

RADANOV, S.; TSEKOV, G.

Sudden death according to data of the Department of Forensic
Medicine of the Higher Medical Institute in Sofia in 1924-1962.
Suvr. med. (Sofia) 16 no.9:531-537 '65.

1. Katedra po sudelna meditsina (rukovoditel prof. M.A. Markov),
Vissh meditsinski institut, Sofia.

L 29779-66

ACC NR: AP6020856

SOURCE CODE: BU/0016/65/000/009/0531/0537

19
E

AUTHOR: Radanov, S.; Tcokov, G.

ORG: Department of Forensic Medicine /headed by Professor M. A. Markov/, Sofia
(Katodra po sudebna meditsina pri VMI)

TITLE: Cases of sudden death as recorded in Department of Forensic Medicine of Sofia
Medical College 1924-1962

SOURCE: Suvremenna meditsina, no. 9, 1965, 531-537

TOPIC TAGS: pathology, cardiovascular system, respiratory system, circulatory
system disease, respiratory system disease

ABSTRACT: Analysis of 1914 necropsies of sudden death cases from among 11,429 necrop-
sies done 1924-1962: 972 are tabulated according to sex and 18 different cardiovas-
cular causes of death (age peaks around 50 for men, 70 for women, while children peak
in respiratory causes of death). [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 06 / SUBM DATE: 00Dec64 / ORIG REF: 007 / OTH REF: 003
SOV REF: 008

Card 1/1

TSEKOV, Khr. (Sofia)

A method of determining the specific heat of liquids. Mat i
fiz Bulg 8 no.1:60 Ja-F '65.

MARKOV, M.; TSEKOV, G.

On the age limits of spermatogenesis. Nauch tr. vissh. med.
inst. Sofia 42 no.1:1-9 '63.

1. Predstavena ot prof, d-r M. Markov.
(SPERMATOZOA) (AGING)

TSEKOV, G.

A possibility of late determination of alcohol in cadavers.
Suvr. med. (Sofia) 15 no.11:33-34 '64.

TSEKOV, G.

The procedure and tasks of the physician at the scene of an accident. Suvr. med. 14 no.9:15-22 '63.

(CORONERS AND MEDICAL EXAMINERS)

KABAKCHIEV, St.; TSEKOV, G.

Unusual case of cardiac wound. Khirurgia, Sofia 12 no.12:1109-1111 '59.

1. Iz IBMP "N.I. Pirogov" i Katedrata po sudebna meditsina pri VMI - Sofia.

(HEART wds.& inj.)

TSEKOV, G.D.

Technique of calculating "VEZ" curves for the potential difference by using the "VEZ" curves for gradient plotting. Study
Akad. neft. prom. no.2:142-149 '55. (MIRA 8:5)
(Oil well logging, Electric)

75 / NOV 1957
VEDRINTSEV, G.A.; TSEKOV, G.D.

Obtaining multi-layer theoretical curves of vertical electrical
prospecting by means of analysis and combination with graphic
methods. Razved i prom. geofiz. no.20:36-46 '57. (MIRA 11:4)
(Prospecting--Geophysical methods)

TSEKOV, G. D.

Tsekoy, G. D. "Interpretation of curve sounding by "point of breaking away", " Prikl. geofizika, Issue 5, 1948, p. 73-78

SO: U-3264, 10 April 1953, (Letonia 'Zhurnal 'nykh Statoy, No. 3, 1949)

TSELOV, G. D.

"A Method of Calculating the Multilayer Curves of Vertical Electrical Soundings When the Basement Medium Consists of Rocks of Very High or Very Low Resistance." Cand Tech Sci, Sci-Res Inst of Geophysical Methods of Exploration, 7 Jan 55. (VM, 28 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

TSEKOV, Gerasim Dmitriyevich; TEREKHIN, Ye.I., red.; FILIPPOVA, Ye.A.,
vodushchiy red.; MUKHINA, E.A., tekhn.red.

[Methods of calculating multilayer curves in electrical prospecting]
Metodika rascheta mnogosloinykh krivyykh elektricheskogo zondirovaniia.
Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1957. 81 p. (MIRA 11:5)
(Logging (Geology))

TSEKOV, Khr.

How to make gasoline pumps. Mat 1 fiz Bulg 6 no.3:62-63 My-Je
'63.

DIULIUNDZHIEV, Damian R., inzh.; TONCHEV, Loziu, inzh.; BURNEV, Dimitur Iv.,
tekhn.; TSEKOV, Kiril Kh., tekhn.

Some critical notes on the Bulgarian State Standard 626-62 concerning
the clay brick holes. Ratsionalizatsia no.8:28-31 '62.

BULGARIA / Chemical Technology, Chemical Products and Their Applications, Ceramics. H

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12527.

Author : Todorov, Iv.; Tsekov, K.; Burnev, Dim.

Inst : Not given.

Title : Improvement in Quality and Decrease in Cost of Products of Building Ceramics.

Orig Pub: Leka promishlenost, 1958, 7, No 2, 23-26.

Abstract: Conditions of brick production in Bulgaria are analyzed, a series of drawbacks are noted, and some measures are indicated directed to the improvement of quality and decrease in cost of production; use of sheds for drying, construction of kilns with permanent walls, etc. -- Ya. Satunovskiy.

Card 1/1

TSEKOV, M.
BULGARIA

Major (Major) N. GANCHEV, Maj L. TSONEV, Maj L. KHRISTOV and Maj M. TSEKOV, MC (Meditsinska sluzhba.)

"The Carrier State Situation at a Specific Time Period of a Dysentery Epidemic."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 2, 1963; pp 42-48.

Abstract: Screening for carriers among soldiers bivouacked in a village where a dysentery epidemic was present in July 1962 brought about the detection of 20 carriers. Detailed data are given indicating that virtually all of these carriers had subclinical degrees of dysentery as revealed by minor pathologic symptoms or proctoscopic changes. Need for periodical screening in general and for thorough treatment of the carriers is stressed. Five tables; 2 Bulgarian, 1 Polish, 1 Hungarian, 16 Soviet references.

1/1

BOIANOV, P.; TSEKOV, M.

A case of hepatic syndrome caused by an acute allergic disease.
Suvr. med. 13 no.12:43-44 '62.

(LIVER DISEASES) (URTICARIA)

TSEKOV, Ts. N.

Periodization of the geotectonic development of Balkanid
system. Godishnik biol 52 no.2:113-130 '57/'58 [publ. '59].

TSEKOV, TS.N.

Contemporary submarine volcanic eruptions. Prir i znanie 17
no.4:23-24 Ap '64.

TSEKOV, V., kand. tekhn. nauk; SHILIN, E., inzh.

Streetcar parts made of nylon. Zhil.-kom. khoz. 11 no.11:24
N '61. (MIRA 16:7)

(Kharkov—Streetcars—Equipment and supplies)
(Nylon)

27044

S/182/61/000/004/006/007
D038/D112

15 8510
15 8080

AUTHORS:

Dreval', N.V. and Tsekov, V.I.

TITLE:

Resistance to wear in caprone gaskets of hydraulic presses

PERIODICAL:

Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1961, 44-45

TEXT: In order to establish the effect of additions of barium sulfate on the wear-resistance of caprone, experimental gaskets for the RP XX hydraulic pumps of Polak hydraulic presses of the ЛПon2255 (L Pol 2255) type were made both from the pure caprone resin "polikaprolakam" [Abstracter's note: Russian transliteration, possibly an error for "polikaprolaktam" (polycaprolactam)], and polycaprolactam with barium-sulfate contents of 5-35%. The samples were annealed for 1 hour in boiling water to relieve residual stresses. Laboratory tests, carried out at a sliding speed of 0.1-2 m/sec, specific pressure on the friction surfaces of 110-120 kg/cm², and a temperature of not more than 90°C, showed that the highest wear-resistance was achieved by an addition of 20-25% of barium sulfate. It was found that tanned leather wears out 3 times faster than pure caprone and five times faster than caprone with 20-25% of barium sulfate. Tests of both types of caprone gaskets in the RP XX pumps confirmed the results of the laboratory experiments. It is stated that the service life of the caprone gaskets with barium sulfate reaches two months as compared with 10-12 days for

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APPROVED FOR RELEASE

Resistance to wear

27044

S/182/61/000/004/006/007

D038/D112

leather gaskets, while the caprone gaskets are considerably cheaper. There are
4 figures.

Card 2/3

BRATANOV, K.; YOSIFOV, K. [Iosifov, K.]; MATLIEVA, M.; TSEKOVA, E.

On the nucleic acid content in spermatozoa of certain farm animals.
Doklady BAN 17 no.11:1047-1049 '64.

1. Institute of the Biology and Pathology of Reproduction and Non-infectious Diseases. Submitted June 12, 1964.

TSEKOVA, S.

"Our tasks during 1958."

p.1 (Leka Promishlenost, Vol. 7, no. 1, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (ERAI) LC, Vol. 7, No. 8, August 1958

Tsokova, S.

TECHNOLOGY

Vol. 7, no. 2, 1993

Tsokova, S. The Seventh Congress of the Bulgarian Communist Party and the development of right theory. p. 1.

Monthly Index of East European Accessions (MIEA) 10, Vol. 8, Pt. 1.
Jan. 1999

TSEKOV, S. D. and KALENOV, YE. N.

"Section III, Electrical Prospecting", — Chapters XI, XIII, and XIV, by Ye. N. Kalenov, and Chapter XII, by S. D. Tsekov appearing in the book "Table of Contents for 'A General Course in Geophysical Prospecting'", Obshchiy Kurs Razvedochnoy Geofiziki (dlya Tekhnikumov), Gostoptekhnizdat, 408 pp.

MALEEV, A. Kh.; KHINKOV, P. Kh.; TSEKOV, T.I.

Peculiarities in the course of typhoid fever in immunized patients.
Suvrem. med., Sofia 9 no.6:11-21 1958.

1. Iz Obshchoarmeiskate bolitsa v Sofia (Nachalnik: M. Kutov)
(TYPHOID FEVER, manifest.
atypical responses in immunized patients (Bul))

TSEKOV, TS. N.

Forecast of earthquakes. Prir i znanie 17 no. 1: 16-17
Ja '64.

TSEKUV, V I

PLATE 1 BOOK EXTRACTS 504/5452

Donskoy, Ye. Ye., G.I. Kardash, and I.P. Lyalyuk, eds.
Mechanization i avtomatizatsiya strobnik stroy ch opite vvedeniya vobremeni
i avtomatizatsiya na khar'kovskiy mashinostroytel'nykh zavodakh (Mechanization
and Automation: Collection of Articles on the Introduction of Mechanization
and Automation in Khar'kov Machinery-Manufacturing Plants) (Khar'kov)
Khar'kovskoye knizhnoye izdatel'stvo, 1960. 375 p. 3,000 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of
the Editorial Board: P.I. Zang, Engineer; A.A. Kulov, Engineer;
V.I. Kurov, Engineer; Ye. Ye. Leonov, Engineer; A.M. Turitskiy, Candidate of
Technical Sciences; and S.M. Khmura, Candidate of Technical Sciences; Eds:
Ye. Ye. Donskoy, G.I. Kardash, and I.P. Lyalyuk; Tech. Eds: M.A. Lisakov.

PURPOSE: This collection of articles is intended for technical and scientific
personnel, outstanding workers, and stock workers of communist labor.
COVERAGE: The multifaceted experience of Khar'kov enterprises in the mechaniza-
tion, automation, and improvement of manufacturing processes is generalized.
The development of new machines, instruments, and automation methods is
considered and attention is given to newly established enterprises, and to
the introduction of value-chains in the Khar'kov gas-system management.
By including concrete examples and facts, the authors of the various
articles attempt to demonstrate the achievements of the Khar'kov industrial
complex in fulfilling the resolutions of the June (1959) and July (1960)
Plenums of the Central Committee of the Communist Party of the Soviet Union.
No personalities are mentioned. There are no references.

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AVAILABLE: Library of Congress (JUL163.M372)	

DREVAL', H.V., kand.tekhn.nauk; TSEKOV. V.I., kand.tekhn.nauk

The effect of graphite addition on the wear
resistance of iron bushings. Izv. vys. ucheb. zav.;
razrabotki. no.8:119-121 '61. (IRA 14:7)

1. Khar'kovskiy institut inzhenerov kommunal'nogo stritel'stva.
(Nylon Testing)

TSEKOV, V.I., kand.tekhn.nauk

Investigating the strength of capron used in friction pairs. Vest.
mash. 40 no.5:35-36 My '60. (MIRA 14:4)
(Nylon—Testing)

TSEKOV, V.I.; SHILIN, E.G.

Use of capron in the repair of streetcar mechanical equipment.

Plast.massy no.6:60-62 '61.

(MIRA 14:5)

(Nylon) (Streetcars)

TSEKOV, V. I.

Tsekov, V. I. "Investigation of the effect of case-hardening and surface cleanliness on the wear resistance of the cutting parts of earth-digging and soil-cultivation machinery." Min Higher Education Ukrainian SSR. Khar'kov Inst of Mechanization of Agriculture. Khar'kov, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

25673 S/122/60/000/005/007/0.7
A161/A130

15 8366

AUTHOR:

Tsekov, V. I., Candidate of Technical Sciences

TITLE:

Investigation of capron wear in friction service

PERIODICAL:

Vestnik mashinostroyeniya, no. 5, 1960, 35-36

TEXT:

Capron has been tested in tram-car axial compressor bearing bushings and in laboratory specimens on a laboratory MM (MI) test machine with a steel cylinder imitating shaft. Industrial "20" oil was used for lubrication. Wear of the steel and capron specimens was examined by weighing on analytic scales with accuracy to 0.0002 g. Highest wear resistance had capron specimens with 5% graphite for filler. This graphite content is the point of optimum effect. Graphite content either below or above 5% gives lower wear resistance. Capron bearing linings on the tram-car were compared with bronze linings, and same graphite content, 5%, was stated to be the proper. The bronze linings withstood only 1 - 1.5 month service and were worn 4-5 mm, but capron linings needed no replacement after 5 months, and their wear did not exceed 0.2 - 0.3 mm after 2 months. Lowest wear had the capron lining with 5% graphite - 0.03-0.15 mm. Steel surface in contact with capron was practically not worn. It was stated

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S/122/60,000/005/007/0.1
A161/A130

Investigation of capron wear in friction service

that abrasive particles getting on the friction surface were instantaneously imbedded and enveloped in capron. It is evident that bronze can be replaced with capron in friction couples. Capron with 5% graphite needs no oil-rich lubricants. It is stressed that temperature on contact surfaces must not exceed 50°C if lubrication is used. There are 3 figures.

Card 2/2

TSEKOV, V., kand.tekhn.nauk; SHILIN, E.

Insulation components of AST-T plastic. Zhil.-kom. khoz. 11
no.3:24-25 Mr '61. (SUFA 14 3.

1. Glavnyy inzhener Leninskogo tramvaynogo depo, g.Khar'kov
(for Shilin).
(Electric insulators and insulation)

GANEV, G.; KHADZHIEV, D.; KARAMALAKOV, L.; TSEKOVA, M.; SIRAKOV, A.;
ATANASOV, K.; CHANKOV, I.; TSOLOV, N.; VASILEVA, I.

Treatment of parkinsonism with a new preparation INHA-17. *Suvrem
med.*, Sofia no.4/5:35-44 '61.

1. Iz Nauchnoissledovatel'skii institut po nevrologiia i psikhiatriia.
(Direktor G. Ganev).

(ISONIAZID rel cpds) (PARALYSIS AGITANS ther)

TSEKOVA, M, d-r, mladshi nauchn sutrudnik

The needle therapy. Nauka i tekhn mladezh 14 no.11:12-13 '62.

1. NIINP.

GANEV, G.; KARAMALKOV, L.; KHADZHIEV, D.; TSEKOVA, M.; SIRAKOV, A.;
ATANASOV, K.; NANKOV, Iv.; TSOLOV, N.; VASILEVA, I.

Treatment of parkinsonism with a new combined preparation INHA-17
with Bellapan (Bellazon). Suvrem med., Sofia no.4/5:45-53 '61.

1. Iz Nauchnoissledovatel'skiiia institut po nevrologiia i psikhiatriia.
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(PARALYSIS AGITANS ther)
(BELLADONNA ther)

TSEKOVA, S.

The Seventh Congress of the Bulgarian Communist Party and the development of light industry. p. 1 Leka Promishlenost Vol. 7, No. 5, 1958. Sofia Bulgaria

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10
Oct. 58

TSEKOVA, S.

Toward new successes during 1957.

F. 1, (Lika Promishlenost) Vol. 6, no. 1, 1957, Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

TSEKOVA, S.

TSEKOVA, S. Struggle for great economy, against squandering. p. 1.

Vol. 5, No. 10, 1956.

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Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 3, March 1957

TSEKOVA, S.

"Our Tasks During 1958."

p. 1 (Elektroenergiia, Vol. 7, No. 1, 1958, Sofia, Bulgaria)

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Nov. 1958

Johnson, W. Vol. 1 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 234

SO: Monthly List of the East European Associations, (LAE), 10. Vol. 1, no. 10, Oct. 1955. Incl.

TSEKOVA, S.

What the annual departmental conferences indicated. p. 1.
LEKA PROMISHLENOST, Sofiya, Vol. 4, no. 2, 1955.

SO: Monthly List of East European Accessions, (EMAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

TSEFOVA, St.

Results from the Annual Conference of the Branches Covered by the Ministry
of Light and Food Industry. Ieka Promishlenost (Light Industry), (2:1: Feb 65

TSEKOVA, ST.

Increase of the Productivity of Labor is Our Basic Task.
LEKA PROMISHLENOST (Light Industry) 4:1:April 55

TSEKOVA, Y.

Attending Radio Operator Courses. "RADIC" Ministry of Communication,
#7-8:18:Jul-Aug. 55

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8"

TSEKULINIA, A. [Cekulina, A.]

Achievements in electrification of the Latvian SSR rural economy.
In Russian. Vestis Latv ak no.7:179-182 '60. (KEAI 10:7)
(Latvia—Rural electrification)

TSEKULINA, A. A. Doc Agr Sci -- (diss) "Power-engineering ~~base~~ of systems
of electrified machines for dairy animal husbandry farms." Riga, 1959. 28 pp
(Latvian Agr Acad), 250 copies (KL, 49-59, 141)

-56-

621.311.1:63(474.3)
2487. Utilization of local sources of power for
electrification of agriculture in the Latvian Soviet
Republic. K. PLAUDS, A. TERKULONYA, AND YU.
MAZUR. *Latv. P.S.R. Zin. Akad. Vest.*, No. 7, 97-111
(1950) in Russian.
Plans for development of local power networks
connected to future hydro-electric and also post-
burning power stations are outlined together with the
possibilities and advantages of electrification of
agriculture on a national scale. J. LUKASIEWICZ

TSEKUN, N., kand.tekhn.nauk (g.Baku)

Plotting cartograms of potential corrosion areas. Zhil.-kov. khoz.
10 no.7:13-15 '60. (MIRA 13:10)
(Baku--Corrosion and anticorrosives) (Electric currents, Eddy)

KALININ, V. M., GURAYEV, V. M. and POKHOD, A. A.

"The Simultaneous action of Direct and Alternating Currents on the Corrosion of Metal in the Soil," Trudy Azerbaydzhan Ind. Inst., Energeticheskii Sbornik, 1940, No. 1, 25, 5-10.

The corrosive effect of a. c. superposed on d.c. on Fe in the soil was very insignificant at sma ll p. ds. Exptl data, diagrams and tables are given.

TSEKUN, N. A.

PA 15/49T3

USSR/Academy of Sciences

Jul 48

"In the Azerbaydzhan Industrial Institute imeni
Azizbekov," N. A. Tsekun, Cand Tech Sci, $\frac{1}{2}$ p

"Elektrichestvo" No 7

Gives authors and titles of 16 papers read at above
Institute.

JMS

15/49T3

USSR/Electricity - Conferences

Dec 52

"Scientific Session of the Azerbaijan Industrial Institute iment Azirbekov AZII," Cand Tech Sci, N. A. Isekhun

"Elektrichestvo" No 12, p 86

The AZII Scientific Session reviewed sci-res work of inst for 1951-1952 academic yr, with special emphasis on problems of cooperation of inst's scientific workers with production. The session, divided into seven sections, heard 68 papers in all. Elec Eng Section (Director - Prof Z. B. Yel'yachevich) heard papers on

242T33

power-system problems and equipment, elec machines and apparatus, production control equipment, and problems related to petroleum industry.

242T33

TSEKUN, N.A., kandidat tekhnicheskikh nauk.

Revising rules of protection for underground metal installations against corrosion. *Elektrichestvo* no.8:70-72 Ag '53. (MLBA 6:8)

1. Azerbaydzhanskiy industrial'nyy institut imeni Azizbekova.
(Electric lines--Underground)

*Natural Liquid & solid, in liquids; sources;
Properties & treatment*

TSEKUN, N. A.

✓ 331. PROTECTION FROM ACTION OF STRAY CURRENTS. Salarr-Zade, M.M.
and Tsekun, N.A. (Energ. Byull. Minist. Heft. Prom. (Pwr Bull. Minist.
Oil, Moscow, July 1953, 13-18). The electrical protection against
corrosion of an oil pipe line, which was affected by stray currents from a
tramway, is described. (L).

8-12-54
APP

TSEKUN, H.A., kandidat tekhnicheskikh nauk.

Scientific conference of the Azerbaijan Industrial Institute. Elektrichestvo
no.10:91 0 '53. (MLBA 6:10)

(Azerbaijan--Electric engineering) (Electric engineering--Azerbaijan)

1. TSEHUN, N. A. Eng.
2. USSR (600)
4. Electric Currents, Vagrant
7. Vagrant currents in heat conductors. elekt. s'is. 2^o No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SPIRIN, A.A., kandidat tekhnicheskikh nauk; TSEKUN, M.A., kandidat tekhnicheskikh nauk.

Protecting heating networks from external corrosion. *Zlekt.sta.* 24 no.
5:14-17 My '53. (MLRA 6:7)
(Heating from central stations) (Steel - Corrosion)

SPIRIN, Aleksay Andreyevich; KAL'MAN, V.S. [deceased]; SALAM-ZADE, M.M.;
TSEKUN, N.A.; MAGREYEV, V.F., professor, doktor tekhnicheskikh
nauk, redaktor; KADYRLI, A.M., tekhnicheskij redaktor

[Electrical study of pipeline and cable corrosion] Metodika
elektricheskikh issledovaniy korrozionnogo sostoyaniya trubno-
provodov i kabelei. Baku, Gos.nauchno-tekhn.izd-vo neft.i gorno-
toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1954. 178 p.

[Microfilm]

(MIRA 10:7)

(Electrolytic corrosion) (Cables) (Pipelines)

ISEKUN, I. I.

SPIRIN, Aleksey Andreyevich; TSEKUN, Naim Aleksandrovich; SAHAM-ZADE, Makh-mud Mekhti ogly; AL'BITSKIY, D.P., professor, redaktor; UDALYY, A.M., redaktor.

[Electric protection from corrosion of underground metallic structures]
Elektricheskaya zashchita podzemnykh metallicheskh sooruzhenii ot
korrosii. Baku, Azneftizdat, 1954. 262 p. (MIRA 8:4)
(Electrolytic corrosion)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8"

Tsekun, N. A.

Subject : USSR/Power AID P - 4016

Card 1/1 Pub. 26 - 5/31

Author : Tsekun, N. A., Kand. Tech. Sci.

Title : Increasing periods of safe operation of heat-distributing underground pipes.

Periodical : Elek. sta., 11, 15-19, N 1955

Abstract : Corrosion causes and prevention in heat piping are discussed. Electric heating of pipelines is explained and recommended. Some suggestions on insulation are made. Five diagrams. Five Russian sources, 1952-54.

Institution : None

Submitted : No date

TSEKUN, N.A.

Subject : USSR/Electricity

AID P - 2084

Card 1/1 Pub. 26 - 26/29

Author : Tsekun, N. A., Kand. of Tech. Sci.

Title : Conference of the readers of the journal Elektricheskiye Stantsii in Baku. (Current Events)

Periodical: Elek. sta., 4, 56, Ap 1955

Abstract : The December 1954 conference in Baku was attended by 70 participants, and was devoted to the periodical Elektricheskiye Stantsii and the manner in which this journal treats problems connected with power. Some criticism of the insufficient information on heat and steam power plants and kolkhoz power stations was voiced. Some recommendations on organizing discussions of various problems were made.

Institution: None

Submitted : No date

Iskhan, N.A.

10(5) **PLANE I BOOK EXPLOITATION** 307/882
Vsesoyuznyy sveshchaniye po korrozii i zashchite metallor.
6th, Moscow, 1956

Teoriya i praktika protivokorozionnoy zashchity podzemnykh
sooruzheniy; teoriya soveshchaniya (Theory and application of
Anti-corrosion measures of Subterranean Installations); Trans-
actions of the 6th All-Union Conference on Corrosion and
Protection of Metals, Moscow, 1956. 273 p. Extra slip
inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR, Institut fizicheskoy
khimii. Komissiya po bor'be s korrozionnyy metallor.

Editorial Board: I.M. Yerzov, Candidate of Technical Sciences;
A.P. Lamer, Candidate of Chemical Sciences; Yu.M. Mikheylovskiy,
Candidate of Chemical Sciences; I.V. Strizhevskiy, Candidate
of Technical Sciences; N.D. Tomashov, Professor, Doctor of
Chemical Sciences; and P.V. Zheligovskiy, Candidate of Chemical
Sciences.

Card 1/4

Belomest, Resp. M.I. N.D. Tomashov, Professor, Doctor of
Chemical Sciences; M. of Publishing House: A.L. Raskvitskiy;
Tech M.I. P.S. Kabanov.

PURPOSE: The book is intended for chemists, engineers, and
metallurgists concerned with the problem of metal corrosion
in underground installations.

CONTENTS: The book contains the papers read at the All-Union
Conference of the Committee on the Control of Corrosion of
the Academy of Sciences, USSR, held in May, 1956. The
following scientific and technical problems discussed at
the conference received particular attention: 1) theory
of metal corrosion underground (N.D. Tomashov and S.I.
Kabanov); 2) theory, calculation, and practical application
of cathodic protection of underground installations
(A.P. Lamer); 3) study of the anticorrosive properties
and the improved technology in manufacturing and applying
protective coatings to subterranean metallic installations
(L. Ya. Talbergman, V.Y. Zhukov, M.D. Debarov, and V.Y.
Artemov); 4) prevention of stray current corrosion (I.V.
Strizhevskiy, J.E. Tomiyamovich, P.G. Doroshenko, and
Card 2/4

L.I. Gerdynskiy); 5) development of methods for determining
the corrosion activity of cells (Yu. M. Mikheylovskiy,
N.D. Tomashov, M.S. Trifonov, and V.Y. Kravtsovskiy); 6) con-
crete examples of corrosion and protection of underground
installations (S.G. Fedotkin and V.S. Artemov, V.S. Pritula,
and S.S. Popov). There are 141 references, 128 of which are
Series, 30 English, and 3 German.

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Trade captions

Preparatory, V.V., and A.P. Lamer. Anodic Pro-
tection of Underground Pipelines Against
Corrosion

Shukov, V.I. Some Problems of Electrical Protection
of Underground Metallic Structures Against Corrosion
Tulbergman, L. Ya. Theoretical Principles and Cal-
culations for Anticorrosive Coatings of Underground
Metallic Pipelines

Shukov, V.I. Methods of Improving the Insulation of
Pipelines

Debarov, M.D. Coatings for the Protection of
Pipelines Against Corrosion by Soil Action

Artemov, V.S. Prevention of Stray Current Corrosion
in Underground Installations

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8"

AUTHOR: Tsekun, N. A. 90-18-3-1/5

TITLE: The Electrical Protection of Power Cables from Corrosion
(Elektricheskaya zashchita silovykh kabeley ot korrozii)

PERIODICAL: Energeticheskii byulleten', 1958, Nr 3, pp 1-7 (USSR)

ABSTRACT: The author discusses methods of protecting underground power cables from corrosion, rejects the method of using an outer steel casing and recommends the electrical method of creating a negative potential on the sheath of the cable. The permissible value of the current is dependent on that of the load carried by the cable (Formula (5)), since the protective current heats the casing and has a bad effect on the thermal working regime of the cables. The thermal resistance of the insulating layer, protective covering and soil are worked out for various cable load currents and temperatures of heating of the wire, as shown in table 1 and figure 1. A scheme of disruptive currents is proposed for the cable and the potential may be supplied either by drainage installations (in the stray current zones) or by cathode stations. A system using the latter method is described.

Card 1/2

The Electrical Protection of Power Cables from Corrosion 9C-58-3-1/9

There are 3 tables, 4 graphs, 1 circuit diagram and
Soviet references.

1. Electric cables--Corrosion prevention 2. Electricity
--Applications

Card 2/2

TSEKUN, N.A.

Establishing new rules for corrosion protection. Izv. vys. ucheb.
zav.; neft i gaz no.8:121-125 '58. (MIRA 11:10)

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L.08781-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB
ACC NR: AP6021377 SOURCE CODE: UR/0423/65/000/012/0022/0024

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TITLE: An automatic cathode station for protecting underground pipelines and cables from corrosion

SOURCE: Za tekhnicheskii progress, no. 12, 1965, 22-24, 39

TOPIC TAGS: cathode, earth current, electric relay, dc amplifier, electric motor, corrosion protection, potentiometer, electric transformer/ RP-5 electric relay, RD-09 electric motor

ABSTRACT: This paper describes one version of an automatic cathode station, developed with the aim of creating a single series of stations with a power of from 0.5 to 5.0 kW. The principal distinguishing feature of the series is the use as the controllable power elements of commercial three-phase induction motors with modified rotors, which are rotary transformers (see Fig. 1). A dc amplifier is used to amplify the control signals and increase the sensitivity. Depending upon the correspondence of the potential of the installation relative to ground to the specified value, the control unit connects an actuator, under the influence of which the power unit changes the operating conditions of the station. The presence of rotary transformers ensures

UDC: 624.11:620.193.7.620.197.5

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